

IDS-64/360 INTERFACE



A combination of hardware and software provides the communication processor with a compatible connection to IBM 360 data processing systems.

HARDWARE INTERFACE The Communication Processor interfaces to the IBM 360 channel as a control unit, operating in accordance with the specifications described in IBM Form

A22-6843-3 "IBM System/360 I/O Interface, Channel to Control Unit OEMI". The interface will respond to all designated signal sequences, including:

Proceed	Command Chaining
Stop	Interface Disconnect
Stack Status	Selective Reset
Suppress Data	System Reset

The hardware interface is transparent to device addresses, commands, and data from the channel, and to status, sense information, and data from the Communication Processor. It may be attached to either a Selector or Multiplexer Channel, without modification.

SOFTWARE INTERFACE The Communication Processor software determines acceptance of device addresses and determination of command validity. It interprets valid commands, maintains sense information, and generates status.

The fully supported system software, supplied with each unit, provides for plug-to-plug compatibility with the IBM 2701 Data Adapter Unit and IBM 2702 and 2703 Transmission Control Units. Compatibility is absolute; existing application programs using BTAM or QTAM will execute without change. Terminals supported by the standard software include:

Model 33/35 Teletype
IBM 1050 Data Communication System
IBM 2740/41 Communication Terminals

High speed synchronous lines are also supported.

A utility program provides for easy redefinition of the system in response to expansion or reconfiguration of the hardware components, or the addition of special features, such as Auto-Call, to existing line adapters. This program associates and IBM 360 device address, a terminal type, and any special features with each physical line attached to this unit.

A unit can be defined such that it is a plug-to-plug replacement for more than one IBM unit. For example, a single unit might terminate 1 to 4 high-speed synchronous lines previously attached to an IBM 2701, and simultaneously terminate 15 start-stop, low speed asynchronous lines previously attached to an IBM 2702. No changes would be required to the IBM 360 programs.

Support for additional terminals, and for adapting "alien" devices to IBM 360 software, is available as an option.



INTERACTIVE DATA SYSTEMS

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